# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference SI-21268-PCT		see Form PCT/ISA/220 , where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/KR2005/000465	19 FEBRUARY 2005 (19.02.2005)	20 FEBRUARY 2004 (20.02.2004)					
Applicant		IP LEE MUCK & PARTNES					
SAMSUNG ELECTRONICS CO., LTD. et al  JUL - 2 2005							
This International search report has been prepared by this International Searching Authority and is transmitted to the International Bureau.							
This international search report consists of a to	otal of5 sheets.  y of each prior art document cited in this report.						
1. Basis of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
this Authority (Rule 23.	The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.							
2. Certain claims were found unsearchable (See Box No. II)							
3. Unity of invention is lacking (	See Box No. III)	•					
4. With regard to the title,							
the text is approved as submitte		•					
the text has been established by	this Authority to read as follows:						
	-						
	-						
5. With regard to the abstract,							
the text is approved as submitte	d by the applicant.						
	ecording to Rule 38.2(b), by this Authority as it	appears in Box No. IV. The applicant					
	e date of mailing of this international search rep						
		•					
<ul><li>6. With regard to the drawings,</li><li>a. the figure of the drawings to be pub</li></ul>	liched with the abstract is Figure No.	·					
as suggested by the applic		<del></del>					
because the applicant faile		•					
because this figure better of							
b. none of the figure is to be publi		·					

Form PCT/ISA/210 (first sheet) (January 2004)

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Box No. 1 Nucleotide and/or amino acid sequence(s) (Continuation of item1.b of the first sheet) 1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in the international application as filed filed together with the international application in computer readable form furnished subsequently to this Authority for the purposes of search In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 3. Additional comments:

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claims Nos.: 7-9 because they relate to subject matter not required to be searched by this Authority, namely:				
Claims 7-9 pertain to diagnostic methods of the human or animal body and thus relate to a subject matter which this International Searching Authority is not required to search under PCT Article 17(2)(a)(i) and PCT Rule 39.1(iv).				
2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claims Nos.:				
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
	:			
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
	-			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest				
No protest accompanied the payment of additional search fees.				

International application No. PCT/KR2005/000465

## A. CLASSIFICATION OF SUBJECT MATTER

# IPC7 C12Q 1/68

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

### IPC7 C12Q 1/68

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used)

NCBI PubMed, NCBI SNP, Esp@cenet, CA, e-KIPASS "colorectal cancer, colon, single nucleotide polymorphism"

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	
x	NCBI Single Nucleotide Polymorphism, Reference SNP Id: rs2295706, NCBI Assay Id: ss12673809 (27 AUGUST 2003)	1-4
<b>X</b>	HAGA H. et al., 'Gene-based SNP discovery as part of the Japanese Millennium Genome Project: identification of 190,562 genetic variations in the human genome. Single-nucleotide polymorphism', In: J. Hum. Genet., 2002, Vol. 47(11), pp. 605-610 See the whole document	1-4
<b>A</b> .	KAWAKAMI K. & WATANABE G., 'Identification and Functional Analysis of Single Nucleotide Polymorphism in the Tandem Repeat Sequence of Thymidylate Synthase Gene', In: Cancer Res., 2003, Vol. 63 pp. 6004-6007 See the whole document	1-6
Α .	JP 2003/235576 A (YAMAGUCHI TECHNOLOGY LICENSING) 26 AUGUST 2003 (26.08.2003) See the abstract	1-6
Т	POWELL N. et al., 'Single nucleotide polymorphism analysis in the human phosphatase PTPrj gene using matrix-assisted laser desorption/ionisation time-of-flight mass spectrometry', In: Rapid Commun. Mass Spectrom., AUGUST 2004, Vol. 18(19), pp. 2249-54 See the abstract	1-6

L	Further documents are listed in the continuation of Box C.	See patent family annex.	
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or prioridate and not in conflict with the application but cited to understathe principle or theory underlying the invention	
"E"	earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive	
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)	step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot b considered to involve an inventive step when the document is	
"O"	document referring to an oral disclosure, use, exhibition or other means	combined with one or more other such documents, such combinati being obvious to a person skilled in the art	on
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family	
Date	of the actual completion of the international course	Data - Caratti Calatta at a la	

Date of the actual completion of the international search
28 JUNE 2005 (28.06.2005)

Date of mailing of the international search report
29 JUNE 2005 (29.06.2005)

Name and mailing address of the ISA/KR



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Facsimile No. 82-42-472-7140

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Information on patent family members

International application No.
PCT/KR2005/000465

miormation on	PCT/KR2005/000465		
Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 2003/235576 A	26.08.2003	None	-
			·

Form PCT/ISA/210 (patent family annex) (January 2004)